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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Wu Zhangyi et al.

Group Art Unit: 2731

Serial No.: 10/617,363

Examiner: Vu, Huy Duy

Filed: July 11, 2003

For: Apparatus and Method for Transmitting
DS3 Signal Using Twisted Pairs

PETITION TO MAKE SPECIAL

Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §1.102(c) and M.P.E.P. §708.02, the Applicant hereby petitions to make the above-identified application special so that it can be taken up for examination on an accelerated basis.

Attached to this petition is a statement by the applicant's attorney, Martin E. Miller, explaining how the invention materially contributes to reducing energy consumption in industrial equipment. This is understood to constitute adequate grounds for granting the petition under 37 C.F.R. §1.102. A petition fee is not required per 37 C.F.R. §1.102(c). Early and favorable consideration of this petition is respectfully requested.

Respectfully submitted,

Martin E. Miller
Reg. No. 56,022

Roylance, Abrams, Berdo & Goodman, L.L.P.
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Dated: March 17, 2005

Statement of Martin E. Miller

DS3 is a high speed data transport format which has been defined and used internally by the U.S. telephone companies for many years. DS3 signals are carried over coaxial cable, but have a range of only 450 feet, and the interface is only suitable for indoor use. Typically, the solution is to multiplex the DS3 onto a fiber optic signal and install fiber in the ground to provide service. However, the fiber optic equipment itself is expensive and the fiber installation consumes a significant amount of energy from a variety of industrial sources, which makes it very expensive. Therefore, unless the energy resources are available and the additional expenses are justified, DS3 service has not been available to a majority of potential users.

The invention has a direct impact on energy savings. The invention permits existing telephone wire to be used by telephone companies to deliver high speed DS3 services, which often eliminates the need to use heavy equipment such as that depicted on the attachment (e.g., backhoes and boring equipment) to install fiber optic cables. The energy savings include the fuel used by the heavy equipment as well as fuel and resources used for street repaving.

Since installation of such fiber cable often disrupts traffic, additional energy savings occur because cars need not idle in place or detour extra distances around construction sites.

In consideration of the fact that the major United States investment in fiber-optic infrastructure over the past 15 years only provides high-speed fiber connectivity to less than 15% of all domestic businesses, the potential energy savings available by using the invention as an alternative to the installation of additional fiber optic cables is substantial. In fact, the energy savings and associated cost savings are a major reason for the current and growing interest in a recently released product based on the invention.

A handwritten signature in black ink, appearing to read "Martin E. Miller", written over a horizontal line.

Martin E. Miller
Reg. No. : 56,022

**Apparatus and Method for Transmitting a DS3 Signal over Multiple Twisted Pair
Conductors Invention Energy Savings**

The invention has a direct impact on energy savings. The invention permits existing telephone wire to be used by telephone companies to deliver high speed DS3 services and thereby often eliminates the need to use heavy equipment such as backhoes to install fiber optic cables. Energy savings include the fuel used by the heavy equipment as well as fuel and resources used for street repaving.



Since installation of such fiber cable often disrupts traffic, additional energy savings occur because cars need not idle in place or detour extra distances around construction sites.



In consideration of the fact that the major United States investment in fiber-optic infrastructure over the past 15 years only provides high-speed fiber connectivity to less than 15% of all domestic businesses, the potential energy savings available by using the invention as an alternative to the installation of additional fiber substantial.